U. S. Department of Agriculture
Forest Service
Southeastern Area
State & Private Forestry

FOREST PEST MANAGEMENT

Report No. 82-3-47

Issued: 9/20/82

AERIAL DETECTION SURVEY OF FOREST INSECT AND DISEASE ACTIVITY, CLARK HILL RESERVOIR, SOUTH CAROLINA AND GEORGIA

LAND OWNERSHIP OR SURVEY AREA: Clark Hill Reservoir

STATES: Georgia and South Carolina

AREA WITHIN SURVEY BOUNDARY: 88,000 acres

DATE: September 7, 1982

PERCENT COVERAGE: 100%

AIRCRAFT: Cessna T-206

CREW: W. A. Carothers and Robert Bain (Army Corps of Engineers)

SURVEY OBJECTIVES

The objective of this survey was to detect the presence of forest insect and disease activity on the Clark Hill Reservoir Project. Special emphasis was placed on delineating areas of red and fading pines characteristic of southern pine beetle infestations.

SURVEY RESULTS

Forty-three areas of red and fading pines were observed. The largest spot contained 25 trees. The attached map (Figure 1) shows the location of the observed spots. Table 1 shows the number and categories of these spots. A copy of the flight map has been given to Mr. Bain and ground checks of the area will be conducted by Corps personnel.

CONCLUSIONS

Because of the appearance of the spots from the air, southern pine beetle is suspected of being the causal agent. Ground checks by Mr. Bain and his staff should confirm this. Southern pine beetle activity is increasing in many areas of the southeast. At the present time it appears that the population of this destructive insect is increasing at Clark Hill Reservoir. Forest Pest Management will conduct a follow-up survey in the spring and a biological evaluation if warranted.

For additional information, contact:
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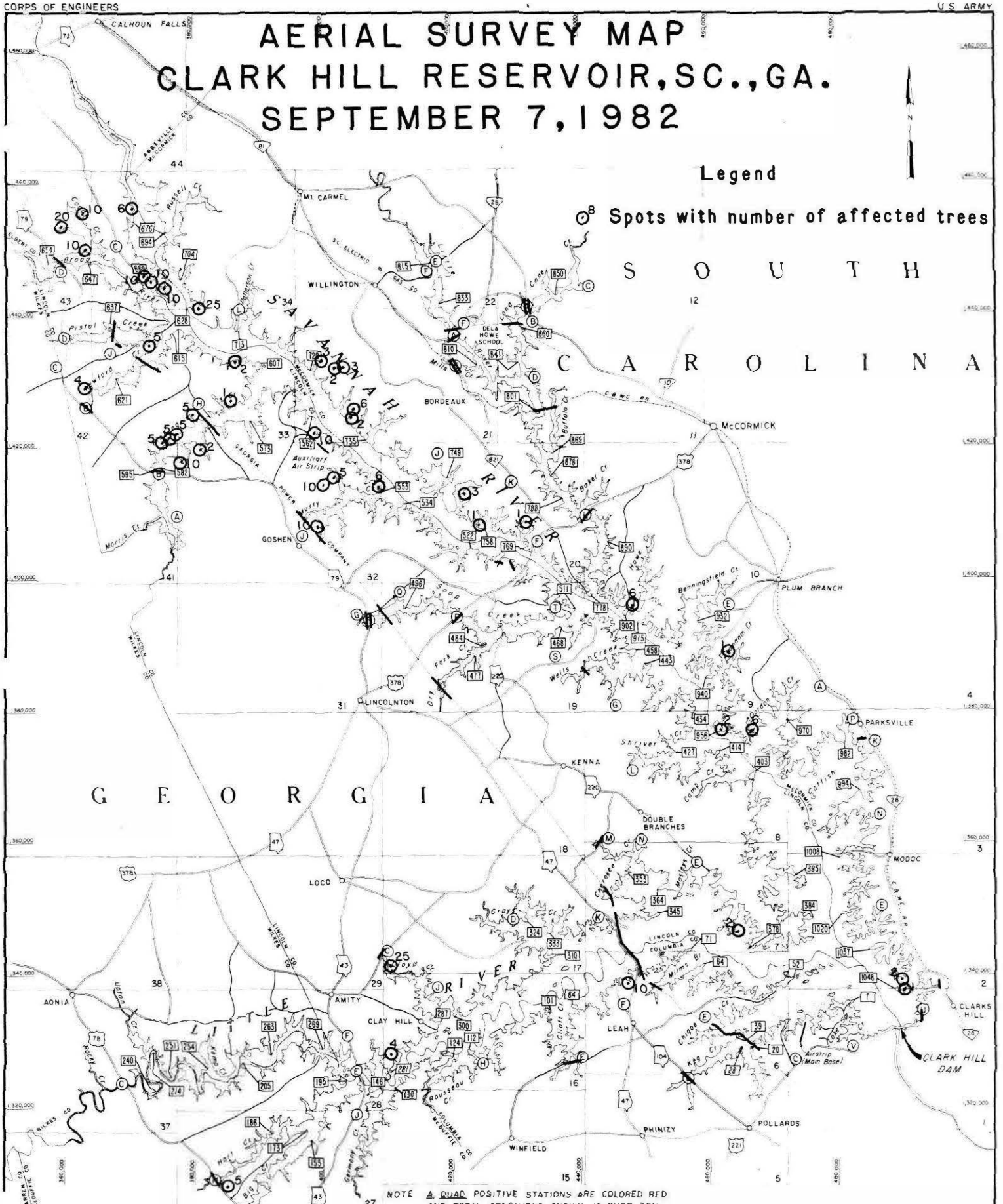
CORPS OF ENGINEERS

U S ARMY

AERIAL SURVEY MAP
CLARK HILL RESERVOIR, SC., GA.
SEPTEMBER 7, 1982



NOTE A QUAD POSITIVE STATIONS ARE COLORED RED AND TOTAL SPECIMENS SHOWN, IF OVER TEN.

LEGEND

— AERIAL WIRE CROSSINGS

(A) LETTERS IN CIRCLES INDICATE ADULT MOSQUITO CATCHING STATIONS. STATIONS ARE DESIGNATED BY ZONE AND LETTER

4 ZONE BOUNDARY AND NUMBER

DATE	8 AM RES ELEV	CONTRACT SERVICES (FLYING)				
		LARVICIDING COLORKEY	LARVICIDING MINUTES	GALLONS APPLIED	GALS TOXICANT APPLIED	ESTIMATED ACRES
SUN		BROWN				
MON		RED				
TUE		ORANGE				
WED		YELLOW				
THU		GREEN				

REPORT NO _____
FOR WEEK ENDING _____

SAVANNAH RIVER BASIN
GEORGIA AND SOUTH CAROLINA
CLARK HILL RESERVOIR

MOSQUITO CONTROL OPERATIONS MAP

SCALE 1/4 MILES

Table 1. Summary of Aerial Survey Data, Clark Hill Reservoir, South Carolina and Georgia.

	Categories of the Size of Spots (Number of Trees)				
	Single Tree	2-5	6-10	11-25	26+
Number of Spots	5	19	16	3	0